

PATENT ABSTRACTS OF JAPAN

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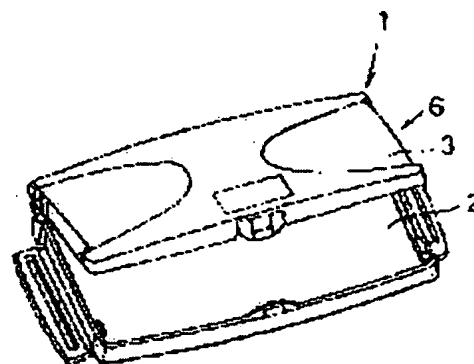
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(54) HOUSING CASE

(57)Abstract:

PROBLEM TO BE SOLVED: To connect a plurality of housing cases to facilitate the handling of them and to facilitate the taking-out/housing of a housing article even when the housing cases are connected.

SOLUTION: In the housing case equipped with a case main body 6 capable of housing the housing article, the case main body 6 is equipped with a first case body 2 and the second case body 3 connected to the first case body 2 through a hinge part 5 and freely opened and closed with respect to the first case body 2. The connection part 15 for connecting the second case body 3 of other housing case is provided to the first case body 2 and the part 26 to be connected locked with the connection part 15 provided to the first case body 2 of the other housing case is provided to the second case body 3.



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CLAIMS

[Claim(s)]

[Claim 1] In the receipt case (6) which equipped the interior with the case body which can contain a receipt object said case body (6) It is combined with the 1st case object (2) and the 1st case object (2) concerned through a hinge region (5), and has the 2nd case object (3) which can be opened and closed freely to said 1st case object (2). The connection section (15) for connecting with the 2nd case object (3) of other receipt cases is prepared in said 1st case object (2). On said 2nd case object (3) The receipt case characterized by preparing the connected section (26) which engages with said connection section (15) prepared in the 1st case object (2) of other receipt cases.

[Claim 2] Said connection section (15) is a receipt case according to claim 1 characterized by being constituted so that it may engage with said connected section (26) which is in the condition which piled up said 1st case object (2) and said 2nd case object (3) of other receipt cases, and was prepared in said 2nd case object (3) of other receipt cases.

[Claim 3] Said connection section (15) is a receipt case according to claim 1 or 2 which consists of a piece of connection installed from the flank of said 1st case object (2), and is characterized by preparing said connected section (26) in the flank of the 2nd case object (3).

[Claim 4] Said piece of connection (15) is a receipt case according to claim 3 which is installed from the flank (12 13) which the 1st case object (2) counters, respectively, and is characterized by preparing said connected section (26) in the flank (23 24) which the 2nd case object (3) counters, respectively.

[Claim 5] Said 1st case object (2) is a receipt case according to claim 4 which is formed in the shape of a rectangle and characterized by preparing said piece of connection (15) in the joint side (11) which said 1st case object (2) combines with the 2nd case object (3) through said hinge region (5), and the side (12 13) which intersects perpendicularly.

[Claim 6] Said connection section (15) is a receipt case according to claim 1 to 5 which consists of a piece of connection installed from said 1st case object (2), and is characterized by preparing the piece of connection concerned (15) in said 1st case object (2) free [rocking] through a connection hinge region (16).

[Claim 7] Said piece of connection (15) is a receipt case according to claim 6 characterized by the connected section (26) concerned and engagement being possible to the location which engages with said connected section (26) of the receipt case where the piece of connection (15) is prepared while it is rockable.

[Claim 8] Said piece of connection (15) is a receipt case according to claim 6 or 7 characterized by preparing the engaged portion (18) with which the piece of connection (15) which is rockable to the location which overlaps the front face of said 1st case object (2), and overlapped said 1st case object (2) engages.

[Claim 9] Said connection section (15) is a receipt case according to claim 1 or 2 which consists of a piece of connection installed from the flank (12 13) of said 1st case object (2), and is characterized by forming the engagement hole (17) which engages with said connected section (26) at the piece of connection concerned (15).

[Claim 10] Said connected section (26) is a receipt case according to claim 9 characterized by being the engagement projection which engages with said engagement hole (17).

[Claim 11] Said engagement hole (17) is a receipt case according to claim 9 or 10 characterized by

being the long hole which can let belts (40), such as a belt, pass.

[Claim 12] Said piece of connection (15 15) is a receipt case according to claim 11 characterized by arranging in parallel said long hole (17) which was installed from the flank (12 13) which the 1st case object (2) counters, respectively, and was prepared in each piece of connection (15 15).

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to a receipt case.

[0002]

[Description of the Prior Art] The receipt case which can contain a PC card is searched for as PC cards, such as memory card, spread. And when the number of the PC cards which a user holds increases, two or more receipt cases are needed.

[0003]

[Problem(s) to be Solved by the Invention] In order to keep two or more receipt cases, a receipt case can only be accumulated or it is possible to arrange only horizontally and to place. In the case of such a storage approach, two or more cases currently kept are essentially scattering, and inconvenient to carry two or more cases collectively. Moreover, in order to make it easy to carry two or more receipt cases collectively, also making a still bigger case contain two or more receipt cases is considered. However, when using such a big case, in order to take out the memory card which is a receipt object, it becomes the procedure of taking out memory card etc. from the receipt case which took out the receipt case and was further picked out from the big case, and fetch and receipt of a receipt object are complicated.

[0004] This invention is made in view of this situation, and even if it is the case where a receipt case is connected, the technical problem of this invention is to make easy fetch and receipt of a receipt object, while it connects two or more receipt cases and makes handling easy.

[0005]

[Means for Solving the Problem] In order to solve the above-mentioned technical problem, the following technical means were used for this invention. In the receipt case equipped with the case body with which the description of this invention can contain a receipt object inside namely, said case body It is combined with the 1st case object and the 1st case object concerned through a hinge region, and has the 2nd case object which can be opened and closed freely to said 1st case object. On said 1st case object It is in the point that the connection section for connecting with the 2nd case object of other receipt cases is prepared, and the connected section which engages with said connection section prepared in the 1st case object of other receipt cases is prepared in said 2nd case object.

[0006] According to this configuration, since a case body has the connection section and the connected section, the handling which connected and bundled up two or more receipt cases becomes possible, and the handling of carrying etc. becomes easy. And closing motion with the 1st case object and the 2nd case object in the same receipt case is not checked, but is in a condition [having connected two or more receipt cases], and can open and close the connected receipt case, and since the 1st case object is connected with the 2nd case object of other receipt cases, fetch and receipt of a receipt object are easy for it.

[0007] And said connection section is in the condition which piled up said 1st case object and said 2nd case object of other receipt cases, and it is desirable to be constituted so that it may engage with said connected section prepared in said 2nd case object of other receipt cases. In this case, two or more receipt cases can be accumulated and connected. Furthermore, said connection section consists of a piece of connection installed from the flank of said 1st case object, and, as for said connected

section, being prepared in the flank of the 2nd case object is desirable. In this case, two or more receipt cases can be connected by that flank. And said piece of connection is installed from the flank which the 1st case object counters, respectively, and, as for said connected section, it is desirable to be prepared in the flank which the 2nd case object counters, respectively. In this case, two or more receipt cases are connected by the flank which counters, respectively.

[0008] And said 1st case object is formed in the shape of a rectangle, and, as for said piece of connection, it is desirable to be prepared in the joint side which said 1st case object combines with the 2nd case object through said hinge region, and the side which intersects perpendicularly again. Said connection section consists of a piece of connection installed from said 1st case object, and, as for the piece of connection concerned, it is desirable to be prepared in said 1st case object free [rocking] through a connection hinge region further again. And it is desirable for the connected section concerned and engagement to be possible while said piece of connection is rockable to the location which engages with said connected section of the receipt case where the piece of connection is prepared. When the piece of connection engages with the connected section of the receipt case where the piece of connection is prepared, the 1st case object and the 2nd case object are fixed.

[0009] Moreover, said piece of connection is rockable to the location which overlaps the front face of said 1st case object, and it is desirable that the engaged portion to which the overlapping pieces of connection engage with said 1st case object is prepared. Furthermore, as for said connection section, it is desirable that consist of a piece of connection installed from the flank of said 1st case object, and the engagement hole which engages with said connected section is formed in the piece of connection concerned. And as for said connected section, it is desirable that it is the engagement projection which engages with said engagement hole.

[0010] Furthermore, for said engagement hole, it is this better ** that it is the long hole which can let belts, such as a belt, pass. A receipt case can be made to hold on the waist by letting the belt of clothes pass to a long hole. And as for said piece of connection, it is desirable that said long hole which was installed from the flank which the 1st case object counters, respectively, and was prepared in each piece of connection is arranged in parallel. A receipt case can be stabilized and held by letting a belt etc. pass to the long hole arranged in parallel.

[0011]

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained based on a drawing. As shown in drawing 1 - drawing 17 , the receipt case 1 concerning this invention is equipped with the case body 6 which combined the bottom body (the 1st case object) 2 and the lid (the 2nd case object) 3 by the hinge region 5. The case body 6 is formed in one with synthetic resin, and said hinge region 5 is a synthetic-resin shaping hinge. The receipt case 1 is suitable for it being formed in the magnitude suitable for containing the memory card of various magnitude of the flash plate memory card MC 1, a memory stick (trademark) MC 2, and CompactFlash (trademark) card MC3 grade, and using it as a memory card case, as shown in drawing 2 . Moreover, Card N can also be contained.

[0012] The bottom body 2 which is the 1st case object has the side attachment wall set up from the periphery of the bottom surface part 8 and the bottom surface part 8. The bottom surface part 8 is formed in the shape of a plane view rectangle, and crevice 8a of magnitude in which flash plate memory card is settled exactly is formed in the top face (inside) of the bottom surface part 8. In addition, when containing smaller memory card, the case body 6 can be equipped with the positioning object (illustration abbreviation) with which opening of the magnitude in which such memory card is settled was formed, and a small memory card can be made to insert in and hold to opening of a positioning object. As for a positioning object, it is desirable to form with a foaming object for memory card protection.

[0013] A side attachment wall consists of the last side attachment wall 10, a back side attachment wall 11, a left-hand side wall 12, and a right-hand side wall 13. In addition, the back side attachment wall 11 is also the joint side combined with the lid 3 through the hinge region 5, and can rotate a hinge region 5 freely by making the direction of a periphery (back side attachment wall) of a case body into the direction of an axial center. As shown in drawing 2 - drawing 5 , from the right-and-left both-sides section which is a flank which a bottom body 2 counters, the pieces 15 and 15 of connection are installed in the right-and-left side. These pieces 15 and 15 of connection are the

connection sections for connecting with other receipt cases, and are formed in one with the bottom body 2 through the connection hinge region 16 of synthetic-resin shaping.

[0014] Each piece 15 of connection is formed free [rocking] by making a cross direction into the direction of an axial center to a bottom body 2 by the connection hinge region 16, and can rock each piece 15 of connection freely within the limits of the location (the location which rotated 180 degrees from the location of drawing 4 and the piece 15 of connection of drawing 5) which touches the inferior surface of tongue of the bottom surface part 8 from the location (location which started from the location of drawing 4 and the piece 15 of connection of drawing 5 90 degrees) which touches the right-and-left side attachment walls 12 and 13. The long long hole 17 is formed in each piece 15 of connection at the cross direction, respectively, and each long hole 17 is arranged in parallel mutually.

[0015] As shown in drawing 3 and drawing 4 , the engaged portion 18 which engages with said piece 15 of connection is formed in the inferior surface of tongue (front face) of the bottom surface part 8 of a bottom body 2. An engaged portion 18 is in the condition which the piece 15 of connection overlapped in contact with the inferior surface of tongue of the bottom surface part 8, and is an engagement projection which engages with the long hole 17 of the piece 15 of connection. In near the right-and-left both ends of the inferior surface of tongue of the bottom surface part 8, the engagement projection 18 makes a pair to order, is arranged in it, and it is formed in the shape of a lower part protrusion so that it may insert in the longitudinal direction both-ends location of a long hole 17 in the condition that the piece 15 of connection overlapped the inferior surface of tongue of the bottom surface part 8. It is held, after the piece 15 of connection has overlapped the bottom surface part 8 because an engaged portion (engagement projection) 18 engages with a long hole 17.

[0016] The lid 3 which is the 2nd case object has the side attachment wall which hung from the periphery of the top panel section 20 and the top panel section 20. The top panel section 20 has the shape of the bottom surface part 8 and abbreviation isomorphism, and notching crevice 20a for the corner of flash-memory-card MC1 grade contacting, and positioning is formed in the inferior surface of tongue (inside) of the top panel section 20. A side attachment wall consists of the last side attachment wall 21, a back side attachment wall 22, a left-hand side wall 23, and a right-hand side wall 24. In addition, the back side attachment wall 22 is also the joint side combined with a bottom body 2 through a hinge region 5. As shown in drawing 2 , drawing 3 , and drawing 6 , the connected section 26 which engages with said pieces 15 and 15 of connection is formed in the right-and-left side attachment walls 23 and 24. In the condition of having closed the bottom body 2 and the lid 3, the connected section 26 is an engagement projection which engages with the long hole 17 of the piece 15 of connection, when it is in the location where the piece 15 of connection touches the side attachment walls 12, 13, 23, and 24 on either side.

[0017] Before and behind the right-and-left side attachment walls 23 and 24, the engagement projection 26 which is the connected section makes a pair, is arranged, and in the condition of having closed the bottom body 2 and the lid 3, when it is in the location where the piece 15 of connection touches the side attachment walls 12, 13, 23, and 24 on either side, it is formed in the shape of a side protrusion so that it may insert in the longitudinal direction both-ends location of a long hole 17. It is held, after the piece 15 of connection has touched the right-and-left side attachment walls 12, 13, 23, and 24 because the connected section 26 engages with a long hole 17. Moreover, since engagement maintenance of the connected section 26 prepared in the lid 3 which is the piece 15 of connection and the 2nd case object which are prepared in the bottom body 2 which is the 1st case object is carried out, the piece 15 of connection and the connected section 26 are functioning also as a lock device in which the closed state of a bottom body 2 and a lid 3 is held.

[0018] In addition, when the pieces 15 and 15 of connection are in the location which touches the right-and-left side attachment walls 12, 13, 23, and 24, as shown in the right-and-left side attachment walls 12, 13, 23, and 24 at drawing 2 and drawing 3 , the piece acceptance section 28 of connection which accepts the pieces 15 and 15 of connection is formed in the concave so that the pieces 15 and 15 of connection may not project in the right-and-left side. Moreover, as shown in drawing 7 , the right-and-left side attachment walls 23 and 24 of a lid 3 are accomplished to convex at a bottom body 2 side, and the right-and-left side attachment walls 12 and 13 of a lid 2 are formed in the concave so that the right-and-left side attachment walls 23 and 24 of the lid 3 formed in convex may

enter.

[0019] As shown in drawing 8 , the heights 30 which the part from the case inside projected up are formed, the upper limit section of the side attachment walls 10, 11, 12, and 13 of a bottom body 2 is carried out, and as shown in drawing 9 , the crevice 31 where the lower limit section of the side attachment walls 21, 22, 23, and 24 of a lid 3 was dented in the part from the case inside or the upper part is formed. When a bottom body 2 and a lid 3 are closed, heights 30 enter a crevice 31 and can realize a positive closed state. Drawing 10 - drawing 14 show the condition of having closed the bottom body 2 and lid 3 of the receipt case 1 which were constituted as mentioned above. As shown also in drawing 4 , drawing 6 , and drawing 12 , the closed state maintenance device 33 for holding, where a bottom body 2 and a lid 3 are closed is formed in the bottom body 2 and the lid 3.

[0020] the closed state maintenance device 33 -- from the longitudinal-direction mid gear of the last side attachment wall 10 of a bottom body 2 -- since -- it has the connection projection 34 formed in the shape of a front lower part protrusion, and the piece 35 of connection which projected caudad and was formed from the longitudinal-direction mid gear of the last side attachment wall 21 of a lid 3, and the connection hole 36 with which the connection projection 34 is caught is formed in the piece 35 of connection. The piece 35 of connection is ahead pushed out and formed so that it may lap with the last side attachment wall 10 of a bottom body 2. Moreover, the neighborhood in which the connection projection 34 of the last side attachment wall 10 of a bottom body 2 is formed is formed in an upper part protrusion, corresponding to this, the regions of back of the piece 35 of connection are formed in a concave, from the tooth-back side of the piece 35 of connection, the connection projection 34 engages with the connection hole 36, and the last side attachment wall 21 of a lid 3 is caught.

[0021] It is held where a bottom body 2 and a lid 3 are closed by engagement of the connection projection 34 and the connection hole 36. Moreover, if a lid 3 is opened by hand, connection will separate by the elastic deformation of piece of connection 35 grade. Said closed state maintenance device 33 of the last side attachment walls 10 and 21 can also perform closed state maintenance of a bottom body 2 and a lid 3, the piece 15 of connection can be made to be able to engage with the connected section 26 like drawing 15 from the condition of drawing 14 , and a closed state can also be made to hold in the right-and-left side attachment walls 12, 13, 23, and 24.

[0022] In dealing with every one receipt case 1, by carrying out the piece 15 of connection like drawing 15 , a closed state can be held certainly and the whole case becomes compact. Moreover, this receipt case 1 can place two or more receipt cases 1 in piles up and down, as shown in drawing 16 . That is, the bottom body 2 of other receipt cases 1 can be placed in piles on the lid 3 of a certain receipt case 1. For example, when piling up three receipt cases 1a, 1b, and 1c like drawing 16 , piece of connection 15 of receipt case 1a of maximum upper case a is made caudad crooked by connection hinge region 16a, and this piece of connection 15a is made to engage with connected section 26 of receipt case 1b of the middle b. Thereby, lid 3 of receipt case 1b of the bottom body 2a and the middle of receipt case 1a of maximum upper case b is connected.

[0023] Piece of connection 15 of receipt case 1b of the middle b is also made caudad crooked by connection hinge region 16b, and makes this piece of connection 15b engage with connected section 26 of receipt case 1c of the bottom c similarly. Thereby, bottom body 2b of receipt case 1b of the middle and lid 3 of receipt case 1c of the bottom c are connected. Piece of connection 15 of receipt case 1c of the bottom c is turned up to the base of bottom body 2c, and carries out engagement maintenance with engaged portion 18c so that it may not become obstructive. By making it above, two receipt cases 1a, 1b, and 1c of each other are connected, and become in one. And a lid 3 can be opened [since lid 3 of receipt case 1b of the bottom body 2a and the middle of receipt case 1a of maximum upper case b is connected and bottom body 2b of receipt case 1b of the middle and lid 3 of receipt case 1c of the bottom c are only connected / each receipt cases 1a, 1b, and 1c] and closed freely, with a connection condition maintained.

[0024] Moreover, as shown in drawing 17 , the piece 15 of connection on either side is changed into the free condition of the letter of a right-and-left protrusion, without making it engage with an engaged portion 18 or the connected section 26, and a receipt case is made to hold on the waist etc. through the belt 40 of the waist at a long hole 17, and a receipt case can be carried easily and can be carried out. Therefore, when taking a photograph with a digital camera, a spare memory card can be

put into the receipt case with which the waist belt was equipped, and can be carried. In addition, this invention is not limited to the above-mentioned operation gestalt. For example, the configuration of the connection section for connecting a receipt case is not limited to what was installed from the flank like the piece 15 of connection, but may form the member which connects these both sides with the bottom surface part 8 and the top panel section 20 by concavo-convex fitting etc.

[0025] Moreover, although the piece 15 of connection is installed from the flank on either side with the above-mentioned operation gestalt, it may be installed from the flank of order. In this case, a connection hinge region shall just rock a longitudinal direction as a direction of an axial center.

Moreover, although engagement and fitting of a hole and a projection constituted engagement to the piece 15 of connection, the connected section 26, or an engaged portion 18 from the above-mentioned operation gestalt, other engagement structures are also employable. Moreover, it may be reverse, although the bottom body 2 was used as the 1st case object and the lid 3 was used as the 2nd case object with the above-mentioned operation gestalt. That is, with the 2nd case object, a bottom body 2 may use a lid 3 as the 1st case object, may form the connection section 15 in a lid 3, and may form the connected section 26 in a bottom body 2.

[0026]

[Effect of the Invention] Since each receipt case can be opened and closed, with two or more receipt cases connected while handling becomes easy according to this invention, since two or more receipt cases can be connected, fetch and receipt of a receipt object are easy.

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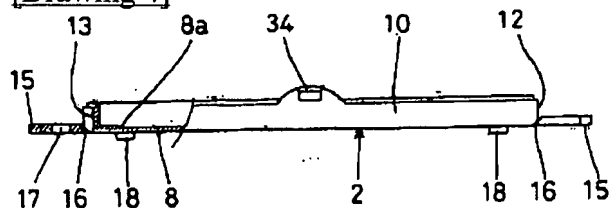
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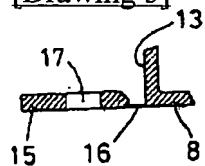
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DRAWINGS

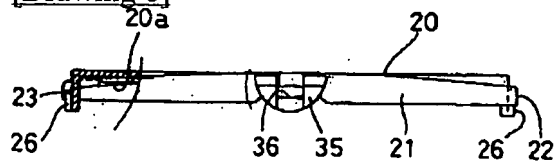
[Drawing 4]



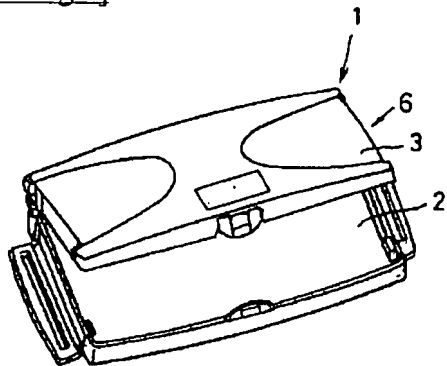
[Drawing 5]



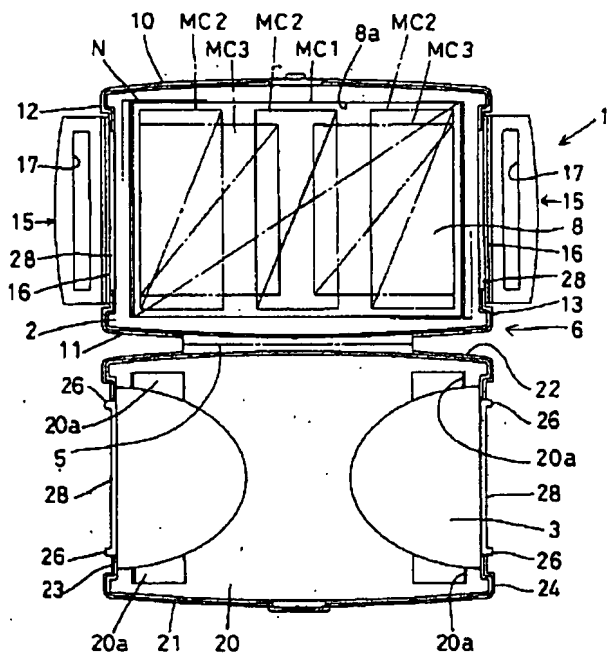
[Drawing 6]



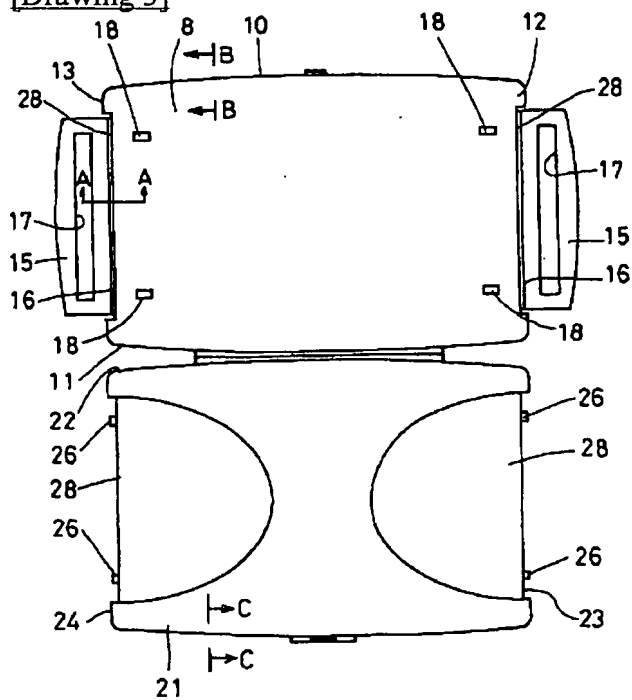
[Drawing 1]



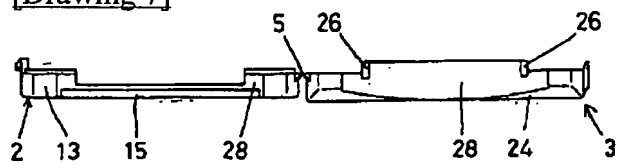
[Drawing 2]



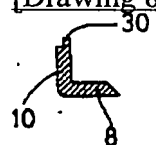
[Drawing 3]



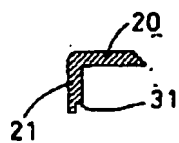
[Drawing 7]



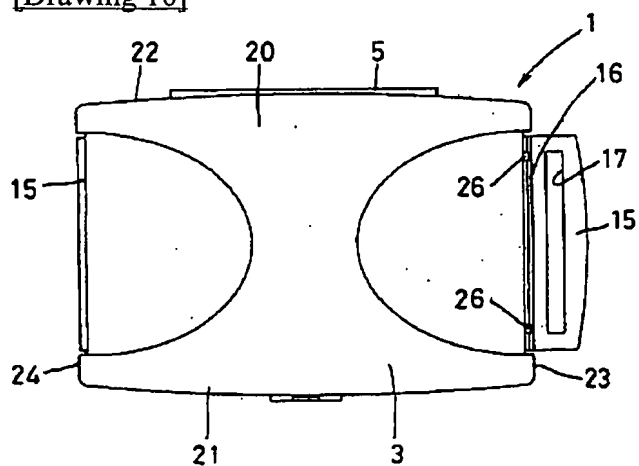
[Drawing 8]



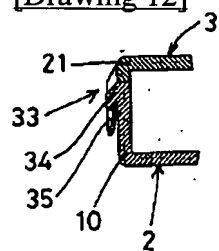
[Drawing 9]



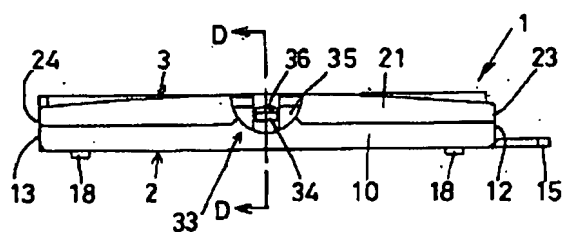
[Drawing 10]



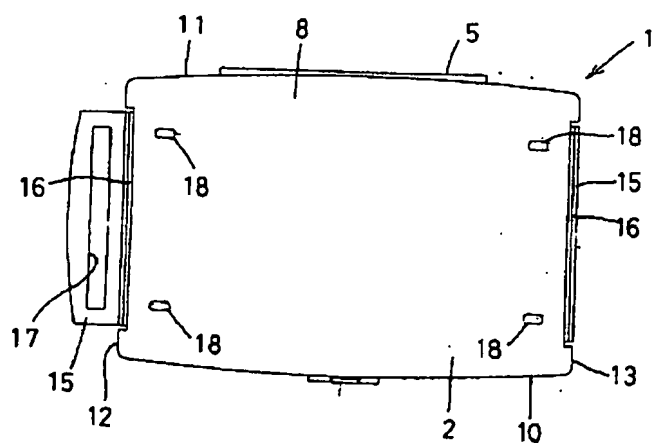
[Drawing 12]



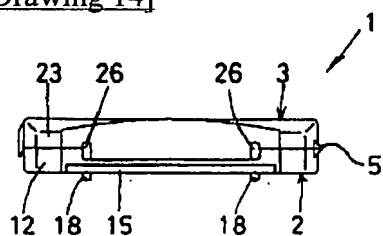
[Drawing 11]



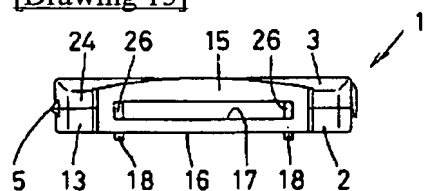
[Drawing 13]



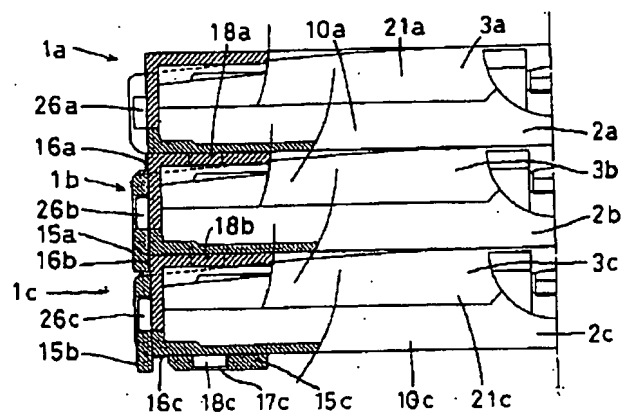
[Drawing 14]



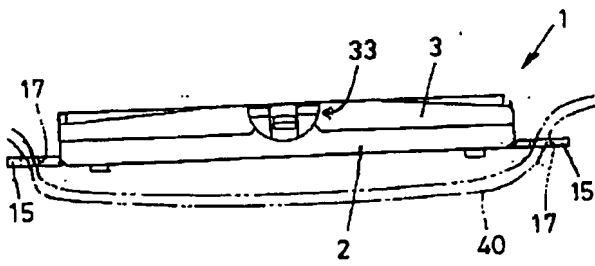
[Drawing 15]



[Drawing 16]



[Drawing 17]



[Translation done.]